

## ASTM A 194M 8CA

# STAINLESS STEEL

NUT MATERIAL FOR HIGH TEMPERATURE SERVICE

ASTM A 194M 8CA Hexagonal Nut made of stainless steel, Manufactured in accordance with ASTM standard to use with Bolts or Stud Bolts. ASTM A193 B8CA for rustproof and corrosive resistant. It is manufactured for used in high temperature service and it is compatible to use with ASTM A320 Gr.B8CA in low temperature service. In sum circumstances it may also be used with ASTM A453 Gr.660 in very high consecutive temperature. Compose of Nickel substance enables of toughness and best of polishing, it is also acid/base corrosive resistant but it non resistant for concentratelike niter. ASTM A 194M 8CA Best for electro -magnet when mix with Nickel. Compose of chromium substance enables of corrosive & erosion resistant. As for columbium and Tantalum even though it is not the same substance, but could be simultaneously found. Columbium is one substance that used for the manufacture of atomic-reactor steel barrier. Tantalum is mainly used for the manufacture of capacitors & rectifier in electronics industry. Solution annealed in finished condition

### Chemical Properties

C	Si	Mn	P	S	Cr	Ni	Cb+Ta
0.08 Max	1.00 Max	2.00 Max	0.045 Max	0.030 Max	17.0-19.0	9.0-12.0	0.80 Min

### Mechanical Properties

#### Proof Load Using Threaded Mandrel- METRIC (kN)

#### Hardness

TYPE	M6	M8	M10	M12	M14	M16	BHN	HRB	HRC
HEAVY HEX	11.1	20.1	31.9	46.4	63.3	86.4			
HEX	10.4	18.8	29.9	43.4	59.2	80.9	126-192	60-90	-

TYPE	M20	M22	M24	M27	M30	M36
HEAVY HEX	134.8	166.7	194.2	252.5	308.6	449.4
HEX	126.2	156	181.8	236.4	288.9	420.8

### Heat Treatment

Carbide Solution Treated in the finished condition.

### Equivalent Designation

UNS S34700  
W.Nr. 1.4550

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